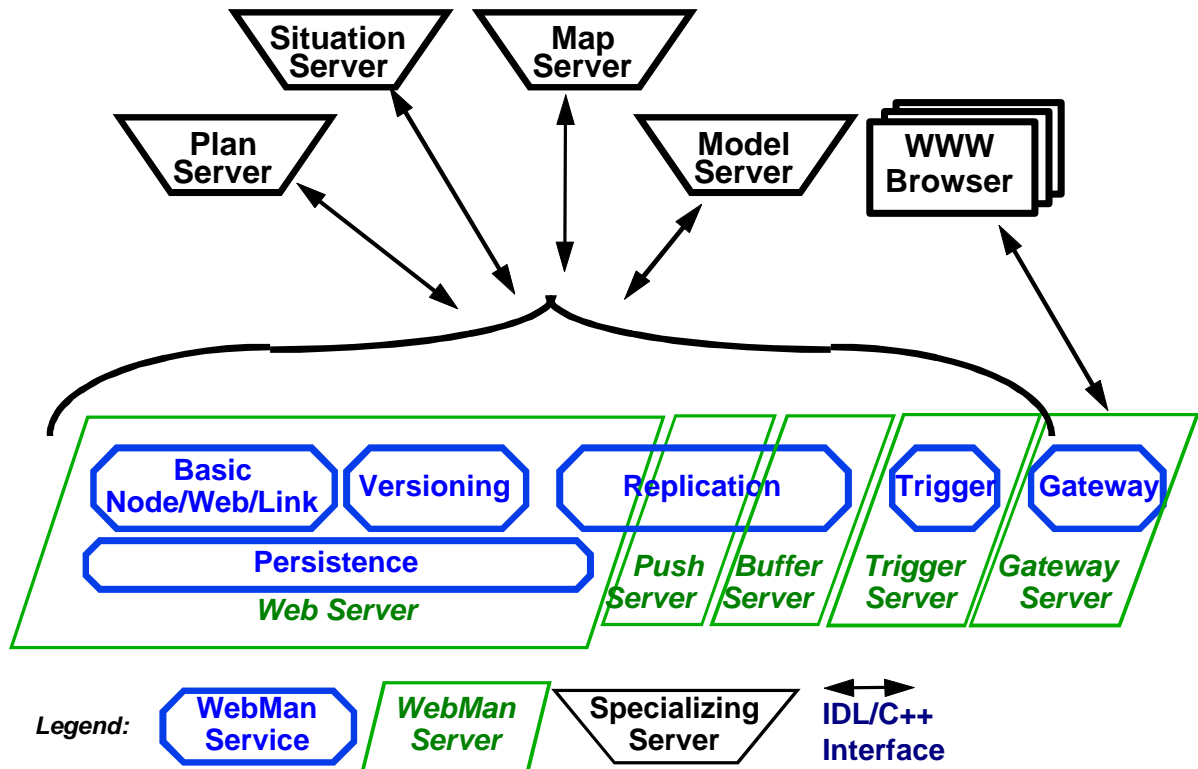# Component Architecture/Design Diagram
OBJECT WEB SERVER

(Provide hardware/software allocation diagram illustrating component modules, platforms they run on, internal and external interfaces, databases, and APIs supported)

Situation Server

Map Server

Plan Server

Model Server

WWW Browser

Basic Node/Web/Link

Versioning

Replication

Trigger

Gateway

Persistence

Web Server

Push Server

Buffer Server

Trigger Server

Gateway Server

Legend:

WebMan Service

WebMan Server

Specializing Server

IDL/C++ Interface

Platform and Interface Details
OBJECT WEB SERVER

PLATFORM H/W: Sun SPARC and 100% compatibles; HP Workstation

PLATFORM OS: Sun Solaris 2.5 1; HP/UX A.09.07

OTHER COTS SYSTEM SOFTWARE: Required: Iona Orbix 2.0.1. (2.1C) Optional for WWW Gateway: WWW browser

APIs and Standards Supported: (Including communications protocols and standards)

Common Object Request Broker Architecture - CORBA 2.0 (via Iona Orbix product) and Interface Description Language (IDL)

POSIX 1.0, TCP/IP. Optional, for WWW Gateway: HTTP and HTML compatible with WWW Browser selected.

Component Details

Component Design

OBJECT WEB SERVER

COTS/GOTS DEPENDENCIES: (to include information and other applications)

The WebMan Object Web Server is completely compliant with the JTF Reference Architecture, as an instance of the "Web Server" defined in that architecture, providing interfaces to other servers and applications consistent with that architecture. In JPS 3.0, the Web Server will be utilizing the services of the Communications Server, as they are made available, to allow its communications activities, primarily for replication, to be bandwidth sensitive.

The Web Server is specialized by other, higher-level JTF ATD servers (Plan, Situation, Map, and Model, currently) to provide higher-level functionality. Those specializing servers make use of the JTF ATD's FineC2 component to provide to clients C++ instantiations of C2 Schema objects stored in Web Server webs and nodes.

Iona Orbix 2.0.1 is required.

HARDWARE/OS DEPENDENCIES: Sun Solaris 2.5 and HP/UX A.09.07

Design Methods/Representation: Object-entity diagrams; CORBA IDL.

DESIGN STANDARDS: Tecknowledge Software Engineering Process Handbook version 2.0 dated 2 Feb 95

DESIGN ARTIFACTS (INCLUDING CASE TOOL DATABASES): (Available and Planned)

Artifacts as specified in the Tecknowledge SE Process Handbook, including requirements, specifications, and designs.

INTERFACE DOCUMENTATION: (Internal & external and when it will be updated)

Web Server Interface Specification version 2.0 dated 21 Jan 96. Version 2.1 to be published Nov 96 and version 3.0 to be published approximately Jan 96.

DATABASE VIEW DOCUMENTATION: (References and when it will be updated)

Not Applicable

Component Implementation

OBJECT WEB SERVER

LANGUAGES USED: C++, C, Tcl

CODING STANDARDS: (References)

Teknowledge Software Engineering Process Handbook version 2.0 dated 2 Feb 95

SOFTWARE SIZE: (Planned or Actual)

Web Server version 2.0 consists of approximately {XXK} SLOC.

USER INTERFACE TECHNOLOGY: Not Applicable

REUSED MODULES: None currently – base-level component.